

Lab Cards, Extender Boards, and Bus Extenders

### QUICK ORDER GUIDE: DETERMINE

- Bus type
- Size of card
- Grid pattern requirements if any
- Extra Requirements, ground planes

### Lab Cards (also known as breadboards, and vector boards)

| Size (mm)   | Grid type                     | Plug type    | Part Number |
|-------------|-------------------------------|--------------|-------------|
| 100 x 160   | .100 x .100                   | B/C64, C96   | 160-5901-00 |
|             | .100 x .100, uncommitted area | All types    | 160-5903-00 |
|             | .100 x .100                   | B/C64, C96   | 160-5907-00 |
|             | .100 x .100                   | D32, E/F48   | 160-5908-00 |
|             | .100 x .100                   | 31, DIN41617 | 160-5909-00 |
|             | .100 x .100, uncommitted area | All types    | 160-5911-00 |
|             | .100 x .100, uncommitted area | All types    | 160-5930-00 |
| 100 x 220   | .100 x .100, uncommitted area | All types    | 160-5935-10 |
| 233.4 x 160 | .100 x .100                   | B/C64, C96   | 160-5914-00 |
|             | .100 x .100, uncommitted area | All types    | 160-5917-00 |
| 233.4 x 220 | .100 x .100                   | B/C64, C96   | 160-5920-00 |
| 233.4 x 400 | .100 x .100, uncommitted area | All types    | 160-5940-00 |
| 100 x 220   | .100 x .100                   | B/C64, C96   | 160-5923-00 |

## Lab Cards

Lab cards are used in prototyping environments. They are ideal for assembling circuits using wire-wrap wires to verify a new circuit design before the final PCB is fabricated. These cards provide a standard 0.1" hole spacing to accept DIP and PGA packages, and prototyping adapters.

Adapters.com Lab Cards also interface with our complete line of prototyping adapters converting the industries highest density packages to a 0.1" grid.

Lab Card configurations and sizes include:

- Non-bus specific
- B/C64
- C/96
- D32
- E/F48
- DIN41617

## Extender Boards

When you need to extend your signals from the motherboard for testing and probing purposes you will use an Extender Board. Many offer access to the bus signals via marked probe points and some utilize multi-layer technology to control signal distortions and crosstalk.

We currently support the following form factors.

### VARIATIONS

- VME
- VXE
- EuroBus
- Non-bus specific
- Eurocard – all form factors for VME/VXI, Multibus II and Futurbus applications
- Peripheral Component Interconnect (PCI)
- Accelerated Graphic Port (AGP)
- Personal Memory Card International Association (PCMCIA)
- Industry Standard Architecture (ISA)

## Bus Extender Cards

Bus extender cards for all types of busses and configurations. Call us if you have questions, or if what you need is not listed here

### ISA

ISA is still out there and being used. If you are prototyping with it, we have the card to make your work much easier.

### PCI AND COMPAQ PCI

PCI is the next generation of bus cards. For this architecture we have both active and passive bus cards. The active cards are hot-swappable. The passive cards are not.

### PCMCIA

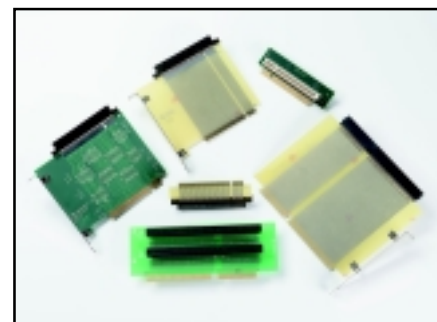
Working with PCMCIA can be very difficult because the cards must go into a slot where it can not be probed. The PCMCIA prototyping cards give you access to the card externally.

### ISA Extenders and Lab Cards

|                | Description  | Part Number |
|----------------|--|-------------|
| Postcard       | Postcard   | 160-5863-00 |
| Bus adapter    | Connector on components side                                 | 160-5863-10 |
| Bus adapter    | Connector on solder side                                     | 160-5863-20 |
| ISA extender   | 6.7x5.0mm,2-layer  | 160-5860-00 |
| ISA extender   | 6.7x5.0mm,4-layer  | 160-5860-40 |
| ISA extender   | right angle extender   | 160-5861-00 |
| Prototype card | 13.1x4.5mm,ISA proto-board<br>13.0x4.4"x0.1 uncommitted grid | 160-5864-00 |



ISA Postcard



Assortment of ISA cards

### PCI and Compact PCI

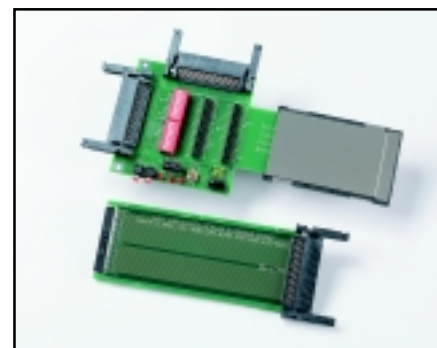
| Type            | Description  | Part Number  |
|-----------------|--|--|
| 32 / 64         | 5.0V,hot swap,ext card<br>3.3V,hot swap,ext card   | 160-5801-50<br>160-5801-30                               |
| 32              | 5.1x3.9",bus extender card, 4-layer, access to all PCI signals   | 160-5802-00  |
| 32 / 64 bit     | 3.3 & 5.0V probe points, hot insertion,access to all PCI signals   | 160-5803-00  |
| 32 / 64 bit     | 5.0V, 4-5.0V expansion slots<br>5.0V, 4-3.3V expansion slots<br>3.3V, 4-3.3V expansion slots<br>3.3V, 4-5.0V expansion slots | 160-5804-10<br>160-5804-20<br>160-5804-30<br>160-5804-40 |
| 32 bit          | 5.1x3.9", bus extender card  | 160-5805-00  |
| 32 bit          | PCI prototyping board<br>11.2x3.7"x0.1 grid uncommitted area   | 160-5806-00  |
| 3U              | 8 layer, 2-pwr & gnd,8 slots +backplanes<br>7 peripheral, 1-sytem slots  | 160-5825-00  |
| 3U, 32 / 64 bit | 4-layer,1-pwr & gnd, marked signal access  | 160-5826-00  |
| Adapter         | Adapts CompactPCI - PCI(32bit) for use with CompactPCI backplane   | 160-5827-00  |
| Adapter         | Adapts CompactPCI add-on to standard PCI form factor, use w/32bit motherboard or backplane                                   | 160-5827-50  |



PCI and Compact PCI Bus Extenders

### PCMCIA Extenders

| Size             | Description  | Part Number |
|------------------|--|-------------|
| 2.125 x 6.35     | 4-layer, marked signals for access, internal Vcc & ground planes                                       | 160-5842-00 |
| 8.25 x 10.8      | 2-layer, prototyping board,VCC monitor and VCC bus, signal access                                      | 160-5841-00 |
| N/A              | PCMCIA hardware development & prototyping kit  | 160-5845-00 |
| Extender 3300    | 4-layer, 68 labeled bus signals, simulated removal & re-insertion, dip switches allow signal isolation | 160-5840-00 |
| Report card 3300 | Memory & I/O cycle decoding  | 160-5840-10 |



PCMCIA active and passive extenders